

ipcc

INTERGOVERNMENTAL PANEL ON climate change



“Update on IPCC WG III Activities”

Dr. Ramón Pichs-Madruga
WG III Co-Chair

Cancun, Mexico, 1 December 2010

With inputs by Christoph von Stechow (TSU-WG III)



IPCC AR5 Cycle: Key Activities for WG III

- **Special Report on Renewable Energy Sources and Climate Change Mitigation (SRREN), to be approved by May 2011**
- **Contribution of WG III to the IPCC AR5, to be approved by 2014**
- **Adaptation, mitigation and sustainable development (Cross-Cutting Theme for IPCC AR5)**

Special Report on Renewable Energy Sources and Climate Change Mitigation (SRREN) - Outline

1. Renewable Energy and Climate Change

- 2. Bioenergy
- 3. Direct Solar Energy
- 4. Geothermal Energy
- 5. Hydropower
- 6. Ocean Energy
- 7. Wind Energy

**Technology
Chapters**

- 8. Integration of Renewable Energy into
Present and Future Energy Systems
- 9. Renewable Energy in the Context of
Sustainable Development
- 10. Mitigation Potential and Costs
- 11. Policy, Financing and Implementation

**Integrative
Chapters**

IPCC WG III AR5: Assessment Challenges

- **More emphasis on the socioeconomic dimension of climate challenge mitigation**
- **Exploring the costs, benefits and risks of different mitigation options**
- **Sectoral and cross-sectoral approach**
- **Assessing a range of scenarios and their technical and institutional requirements (AR5 – Chapter 6)**
- **More realistic policy cases through consideration of fragmented markets and technology failures (e.g. constraints for renewable energy technologies)**

IPCC AR5 WG III Outline

I: Introduction

1. Introductory Chapter

II: Framing Issues

- 2. Integrated Risk and Uncertainty Assessment of Climate Change Response Policies**
- 3. Social, Economic and Ethical Concepts and Methods**
- 4. Sustainable Development and Equity**

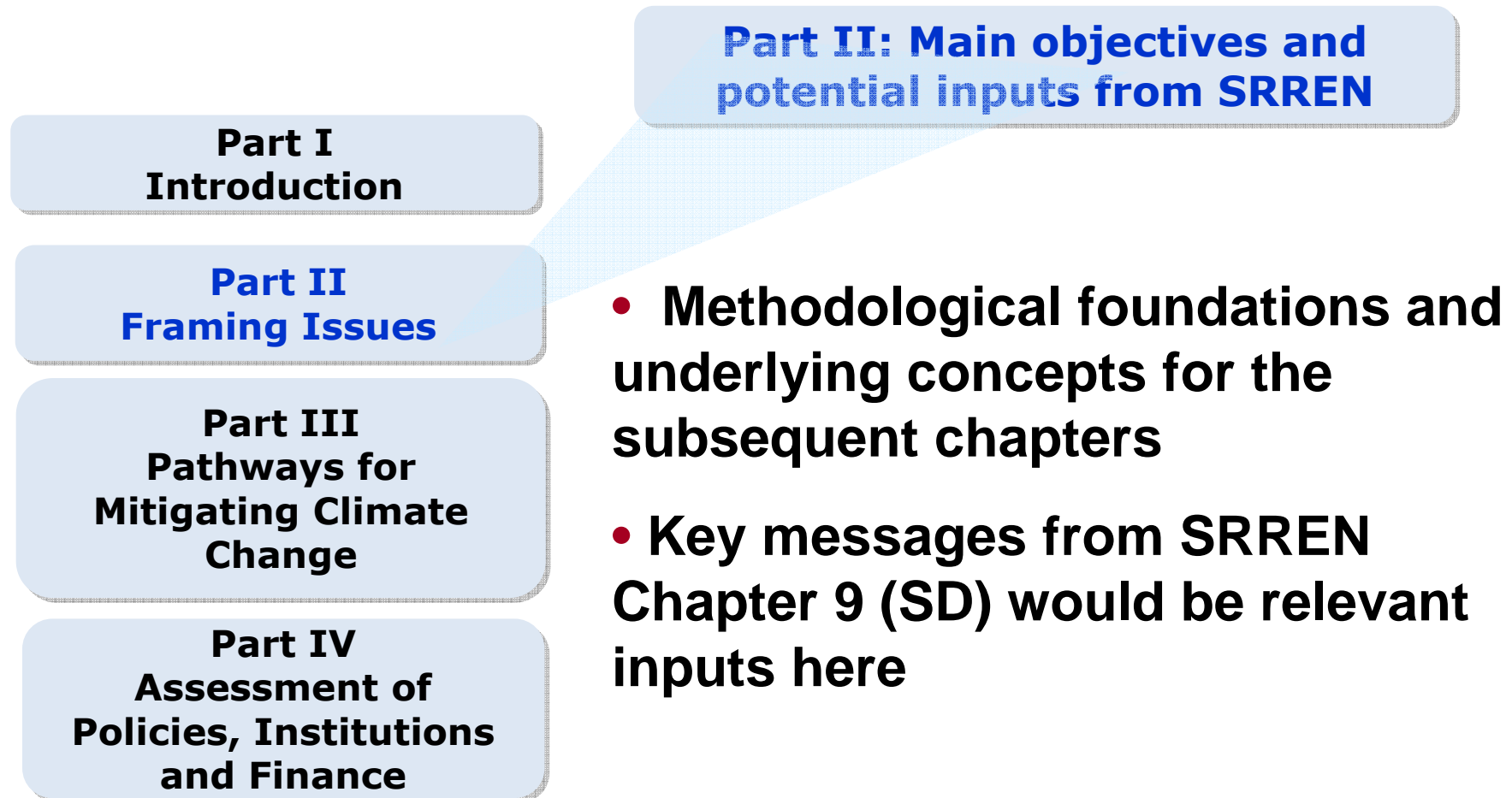
III: Pathways for Mitigating Climate Change

- 5. Drivers, Trends and Mitigation**
- 6. Assessing Transformation Pathways**
- 7. Energy Systems**
- 8. Transport**
- 9. Buildings**
- 10. Industry**
- 11. Agriculture, Forestry and Other Land Use (AFOLU)**
- 12. Human Settlements, Infrastructure and Spatial Planning**

IV: Assessment of Policies, Institutions and Finance

- 13. International Cooperation: Agreements and Instruments**
- 14. Regional Development and Cooperation**
- 15. National and Sub-national Policies and Institutions**
- 16. Cross-cutting Investment and Finance Issues**

The Philosophy of the WG III AR5 Part II



The Philosophy of the WG III AR5 Part III

**Part I
Introduction**

**Part II
Framing Issues**

**Part III
Pathways for
Mitigating Climate
Change**

**Part IV
Assessment of
Policies, Institutions
and Finance**

Part III: Main objectives and potential inputs from SRREN

- An integrated assessment of sectors (bottom-up perspective) and transformation pathways (top-down perspective)
- Key messages from SRREN Technology Chapters as well as Chapter 8 (Integration) and 10 (Potential and costs) would be relevant inputs here

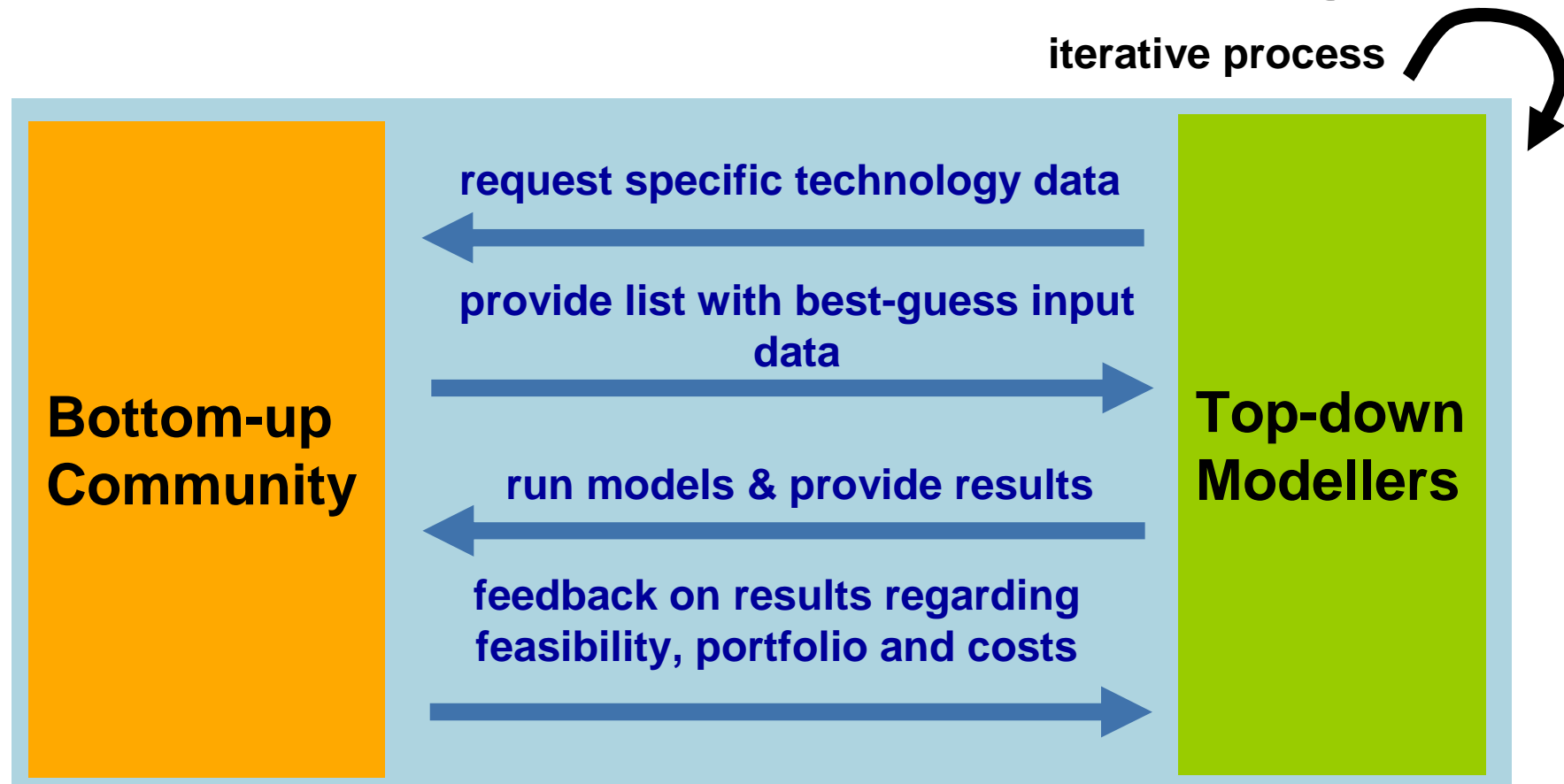
ipcc

INTERGOVERNMENTAL PANEL ON climate change



Lessons for AR5: Bottom-up – Top-down Interaction

Outcome of SRREN Scenario Expert Meetings



Goal: More realistic representation of policy space

The Philosophy of the WG III AR5 Part IV

**Part I
Introduction**

**Part II
Framing Issues**

**Part III
Pathways for
Mitigating Climate
Change**

**Part IV
Assessment of
Policies, Institutions
and Finance**

Part IV: Main objectives and potential inputs from SRREN

- **Policy assessment at all scales, from international to sub-national, and the role of investment and finance for mitigation**
- **Key messages from SRREN Chapters 11 (Policy) would be relevant inputs here**

Adaptation, mitigation and sustainable development (CCT for IPCC AR5)

IPCC WG III Perspective:

- AR4 main findings as a reference
- **SRREN Chapter 9: Renewable Energy in the Context of Sustainable Development**
- **WG III AR5 Chapter 4: Sustainable Development and Equity – Framing Chapter**
- New scenarios assessment process (socioeconomic component)